



Application to Connect Generators

A guide to preparing your
Application to Connect Form – Generators

September 2023

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1. Instructions

In accordance with clause 5.3.4 of the National Electricity Rules (NER), this application form gathers the information ElectraNet requires to progress an application to connect to the South Australian transmission network and the National Electricity Market (NEM).

Before you complete this form, we recommend you take the time to understand the connection process and have early conversations with our Business Development team to receive appropriate advice for your situation. The team is here to help and would welcome a chance to discuss how we can help deliver your project.

Process

There are three key stages to the transmission network connection negotiation process:

1. the initial connection enquiry
2. this application to connect stage and the final offer to connect stage, which will involve the negotiation
3. execution of a transmission connection agreement between you and ElectraNet.

Before completing this form, you must have submitted a connection enquiry, in accordance with clause 5.3.2 of the NER, and have received our response in accordance with clause 5.3.3 of the NER.

Before ElectraNet will process the Application to Connect, you must have executed a Preliminary Works Agreement for ElectraNet to support your application. ElectraNet would be pleased to provide you with a proposal for these services when required.

ElectraNet requires that the information outlined in its Connection Checklist, including your proposed technical access standards, be submitted as part of this application to connect form.

After reviewing your completed application to connect form, we may ask you for additional information to better understand your requirements and process your request.

Notes


The Application to Connect form has two parts:

1. Participants' details
2. Connection Checklist

Definitions and terms used in this form are explained in section three and can also be found in chapter 10 of the NER.

Contact Information

To have a confidential discussion about your project, the transmission connection process or how to complete or submit any of the associated forms, please contact our Business Development team:

 **+61 8 8404 7966**

 **connection@electranet.com.au**

2. Application to Connect Form

Connection Applicant Details

Date of Connection Enquiry

Connection Enquiry Reference Number¹

Has an ElectraNet confidentiality agreement been executed by the connection applicant?

Yes	No
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Company Details

Company Name

ACN

ABN

Primary Contact

Name

Position

Phone Number

Email Address

Postal Address

Project Details

Project Name

GPS Details

Confirm ElectraNet/AEMO Connection Performance Standard Guideline has been followed

Yes	No
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Confirm all required documents, models and details have been supplied with this Application

Yes	No
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¹ The connection enquiry reference number is the unique identification number for each connection enquiry and can be found at the top of all correspondence sent to the connection applicant.

3. Customer Performance Standards Generator Connection Checklist

The purpose of this guide is to assist a connecting party in collecting the relevant information required to prepared an NER compliant application to connect. The below table summarises the typical information which will be needed either with the completed application to connect form or throughout the application to connect phase of the project.


There may be information required in addition to that shown in the list below. We will help you in understanding any additional requirements as and when the need arises.

Item	Required information or things to consider	<input checked="" type="checkbox"/>
1	AEMO Register as an Intending Participant in the NEM (if not already a Registered Participant)	
2	Detailed Design for those Identified User Shared Assets that will not be provided by ElectraNet (and any other associated requirements as outlined in Chapter 5 of the NER)	
3	Project Location Maps (ideally Google Earth files showing project location, boundaries, collector substation site etc.)	
4	Single Line Diagrams	
5	Half hourly generation and/or load profile (Storage projects may require load from the network and this should be considered)	
6	Plant dynamic models and associated model documentation (ensuring 6 digit bus numbers) AEMO Modelling Requirements	
7	Releasable User Guides, Data Sheets and any other reference documents AEMO Guideline for Preparation of a Releasable User Guide AEMO Template for Preparation of a Releasable User Guide	
8	Voltage and/or Power Factor Control Strategy	
9	Proposed Generator or Customer Performance Standards AEMO Generator Performance Standards Template AEMO Customer Performance Standards Template AEMO Guidelines for Assessment of Generator Proposed Performance Standards	
10	PSS/E Study Cases in support of the proposed Performance Standards	
11	PSCAD Models and any other relevant studies for the generator	
12	Powerfactory model (if available)	

Item	Required information or things to consider	<input checked="" type="checkbox"/>
13	<p>If you have undertaken any of the following studies, please provide relevant results (note these are not required at the time you make your application to connect, however will need to be considered through the application to connect stage. If these studies have not been performed. we would be happy to discuss whether ElectraNet could undertake any of these on your behalf as part of our services)</p> <ul style="list-style-type: none"> • Geotechnical • Environmental and Ecological • Aboriginal Cultural Heritage • Noise • EMF • Site Surveys (including boundary surveys for switching station. substation, access roads and project boundaries; contours; etc) • Any other relevant studies? 	
14	<p>Other Items for consideration as part of the Application to Connect process (if applicable):</p> <ul style="list-style-type: none"> • ESCOSA Licensing Requirements • OTR Generator Development Approval Procedure • AEMO System Strength Impact Assessments • Any other information applicable to your application to connect 	
15	System strength details of approach	
16	Details from large generator checklist if requested	
17	For further reference please look to the AEMO generator connection application checklist	



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